NGUYEN THANH HUY

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TARGET

- Apply Artificial Intelligence (AI) to enterprise projects to streamline processes, reduce operational costs, and improve business efficiency.
- Expand expertise in architectural design and infrastructure development to enhance system scalability, performance, and stability.
- Optimized scalable backend systems to ensure optimal performance, security, and maintainability.

EDUCATION

Ho Chi Minh City University of Industry and Trade **Sep 2023 - Present**

The Degree of Master Information Technology

Ho Chi Minh City University of Food Industry **Sep 2018 - Dec 2022**

The Degree of Engineer Information Technology, Major in Software Engineering

TECHNICAL SKILLS

- **Core Technologies:** C#, .NET Core, ASP.NET, Web API, Entity Framework Core
- **Architecture & Patterns:** Microservices, Domain-Driven Design , RESTful APIs
- **Database & Caching:** Microsoft SQL Server, MongoDB, Redis
- **Message Brokers & Search Engine:** Kafka, Elasticsearch
- **DevOps & Tools:** Docker, Jenkins, Git, Jira, Postman
- **Monitoring:** Elastic APM
- **Methodologies:** Agile (Scrum, Kanban)

WORK EXPERIENCE

FPT Retail **Apr 2022 – Present**

Backend Software Engineer

- Applied Agile/Scrum methodologies to manage projects and ensure timely delivery of deliverables.
- Analyzed business rules and requirements from Business Analysts to fully understand project workflows and processes.
- Compared BA requirements with SRS documents from clients to ensure efficient system integration with partners such as Momo, Payoo, Viettel, Samsung, and Apple,...
- Collaborated with the IT department on network configurations to establish secure connections between systems.
- Developed core services using .NET Core architecture, integrating with partner web services.
- Optimized system performance and improved code quality to ensure low API latency and stable throughput.
- Applied Design Patterns and System Architecture Principles such as Observer Pattern, Singleton, Message Queue Pattern, Domain-Driven Design (DDD) for scalable and maintainable system design.
- Utilized Jenkins to implement CI/CD pipelines, optimizing the deployment process across multiple environments for efficient and automated code delivery.
- Monitored and tracked services using APM tools to ensure system stability and performance.

KEY FEATURE

Integration with Vendor Web Services

- Integrated various vendor services, including bill payments (Payoo, SmartPay, Epay, FTEL,..), software key distribution (PSD, FPT Play, HTECH,...), mobile top-up and recharge, and SIM FPT activation and sales, ensuring smooth transactions and efficient system performance.
- Resolved technical debt by upgrading the system from .NET Core 2.1 to .NET 6, improving performance, security, and maintainability.
- Optimized SQL query execution plans and Elasticsearch DSL, improving indexing efficiency, minimizing round-trip time, and enhancing overall query performance.
- Refactored APIs to reduce latency (under 200ms), increase throughput, and optimize microservices performance, enhancing scalability and system resilience.

- Reduced service bottlenecks by 70% during peak transaction periods, enhancing system performance, throughput, and responsiveness.
- Handled concurrent transactions using Data Versioning and the Pub/Sub Pattern, ensuring data consistency.
- Handled a high-throughput system, processing 5,000 requests per second, ensuring scalability, performance
- Performed integration testing using Postman, improving deployment accuracy and reducing errors in the production environment.
- Website**:** FPT Shop Services

Operation Assistant Tool

- Reduced operational workload by 50%, making system management more efficient for operators.
- Automated reconciliation tools, reducing the workload for the reconciliation department by 80%, eliminating manual errors, and minimizing financial risks.
- Improved error detection by providing detailed vendor error messages, enabling faster resolution through vendor support channels.
- To easily search transaction information: status, SKU, CustomerName, etc.
- Assisting in updating status and information on UI.

THL One **Oct 2021 – Apr 2022**

Intern Backend Software Engineer

- Designed, developed, and tested a data import management screen for the ERP system.
- Implemented CRUD operations using ADO.NET and SQL Server, improving data processing speed and reducing query execution time.
- Gained hands-on experience with the MVC framework, working on backend logic, data flow management, and improving system maintainability.
- Developed and optimized user interfaces using DevExtreme UI, HTML/CSS, and JavaScript, enhancing the user experience and system responsiveness.
- Assisted in testing and validation, ensuring system reliability before deployment.

PERSONAL PROJECT

Intrusion Detection System **Feb 2025 - Present**

- **Gitlab**: https://gitlab.com/intrusion-detection-system
- **Description**: The Intrusion Detection System (IDS) project focuses on developing a system to detect network threats. It applies deep learning and machine learning techniques to analyze network traffic and identify anomalies. The system is designed to detect unusual network activity and notify users of potential threats in real time.
- **Objectives**:
    - Research and apply scientific papers from major publishers such as IEEE Xplore, Springer, and Elsevier to develop the system.
    - Implement deep learning and machine learning techniques to build an intrusion detection model.
    - Integrate modern technologies such as message queues, Flask API, and Grafana for system development and monitoring.
    - Deploy the application in a CI/CD environment to automate and streamline the development process.
- **Technical Skills:** Keras ,Kafka, Flask API, PostgreSQL, Jenkins, GitLab, Docker.